CLAIMS

1. A modular cabinet for storing and driving stirrer cans containing liquids, the modular cabinet (1) comprising a bottom stand (2) on which at least one cabinet module is mounted, and a motion transmission system constituted by driver transmission elements (9, 14) and driven transmission elements (8), each cabinet module being made up of two upright elements (3) and a mechanical shelf (4) for supporting and driving stirrer cans,

the modular cabinet being characterized in that the driver transmission elements (9, 14) of the motion transmission system are disposed outside said mechanical shelf (4) and are independent thereof, and in that the mechanical shelf (4) contains only driven transmission elements (8).

2. A modular cabinet according to claim 1, characterized in that the connection functions between the upright elements and the mechanical shelf are concentrated in a central connection node (7) within the upright elements (3) serving to provide the assembly with rigidity.

3. A modular cabinet according to claim 2, characterized in that the upright elements (3) and the central connection node (7) are assembled together by being engaged one within another and are held together by snap-fastening.

4. A modular cabinet according to claim 2 or claim 3, characterized in that the central connection node (7) is made of two symmetrical hermaphrodite portions.

5. A modular cabinet according to any one of claims 2 to 4, characterized in that the central connection node (7) constitutes a seat for fastening accessory elements.

6. A modular cabinet according to any one of claims 2 to 5, characterized in that the central connection node (7) is made of plastics material.

7. A modular cabinet according to any preceding claim, characterized in that the two upright elements (3) and the mechanical shelf (4) of each cabinet module are mounted by mutual engagement over a distance that is sufficient to ensure that the assembly is rigid.

8. A modular cabinet according to any preceding claim, characterized in that the drive transmission elements are constituted by a line of fractioned drive shafts (14).

9. A modular cabinet according to claim 8, characterized in that one of the two upright elements (3) of each module comprises a fractioned drive shaft portion (14) and in that said fractioned drive shaft portion (14) is secured to the upright elements (3) in such a manner as to be free to move in rotation and in translation.

10. A modular cabinet according to claim 9, characterized in that said fractioned drive shaft portion (14) is secured to the upright elements (3) in removable manner.

11. A modular cabinet according to any one of claims 8 to 10, characterized in that the drive shaft (14) presents a section of constant non-circular curvilinear or polygonal shape.

12. A modular cabinet according to claim 11, characterized in that the drive shaft (14) presents a non-circular curvilinear shape of Torx® type.

13. A modular cabinet according to any one of claims 8 to 12, characterized in that endpieces (15) are secured to both ends of the drive shaft (14), the endpieces matching

the geometrical shapes of the shaft and providing connections to the gears (9) driving the drive blades at each central connection node (7).

14. A modular cabinet according to claim 13, characterized in that the endpieces (15) are engaged on the drive gears (9) of each central connection node (7) with clearance that is sufficient to enable the line of shaft to self-adjust angularly in simple and rapid manner during assembly.

15. A modular cabinet according to claim 13 or claim 14, characterized in that the endpieces are made of a plastics material that is sufficiently elastic to accommodate shocks on starting and sufficiently hard to transmit torque.

16. A modular cabinet according to any one of claims 13 to 15, characterized in that the endpieces (15) are fitted and secured by U-shaped clips.

17. A modular cabinet according to any one of claims 8 to 16, characterized in that the drive shaft (14) is made by extrusion.

18. A modular cabinet according to any one of claims 8 to 17, characterized in that the drive shaft (14) possesses a hollow core.

19. A modular cabinet according to any one of claims 8 to 18, characterized in that the drive shaft (14) is made of aluminum.

20. A modular cabinet according to any preceding claim, characterized in that the bottom stand (2) includes a motor for driving drive transmission elements.

21. A modular cabinet according to claim 20, characterized in that the motor (5) can be removed without disassembling either the bottom stand (2) or the structure of the machine.

22. A modular cabinet according to any preceding claim, characterized in that the mechanical shelf (4) is removable without dismantling the stirrer modules.

23. A modular cabinet according to any preceding claim, characterized in that the cabinet includes at least one cabinet module with support shelves for storing cans without motion transmission elements.

24. A modular cabinet for storing and driving stirrer cans containing liquids, the modular cabinet (1) comprising a bottom stand (2) having at least one cabinet module mounted thereon, and a motion transmission system constituted by driver transmission elements (9, 14) and driven transmission elements (8), each modular cabinet being made up of two upright elements (3) and a mechanical shelf (4) for supporting and driving stirrer cans,

the cabinet being characterized in that all of the driver and driven transmission elements (9, 14; 8) are disposed inside said mechanical shelf (4), and in that the mechanical shelf (4) includes at least one motor and gearbox unit for driving the motion transmission system.

25. A modular cabinet according to claim 24, characterized in that the mechanical shelf (4) includes individual motor and gearbox units mounted directly on the drive stations for transmitting the rotary motion of the unit to the stirrer blades inside the cans.

26. A modular cabinet for storing and driving stirrer cans containing liquids, the modular cabinet (1)

comprising a bottom stand (2) on which at least one modular cabinet is mounted, and a motion transmission system constituted by driver transmission elements (9, 14) and driven transmission elements (8), each cabinet module being made up of two upright elements (3) and a mechanical shelf (4) for supporting and driving stirrer cans, the cabinet being characterized in that the driver transmission elements are constituted by a line of fractioned drive shafts (14) and one of the two upright elements (3) of each module includes a portion of the fractioned drive shaft (14), and in that said portion of the fractioned drive shaft (14) is secured to the upright elements (3) in such a manner as to be free to move in rotation and in translation.

27. A modular cabinet according to claim 26, characterized in that said portion of the fractioned drive shaft (14) is secured to the upright element (3) in removable manner.